

# Call for Papers for JIPS Special Section :

## Advanced Cryptocurrency and Blockchain Technology

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### Journal of Information Processing Systems

<http://www.jips-k.org>

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ISSN: 1976-913X (Print), ISSN: 2092-805X (Online)

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The Journal of Information Processing Systems (JIPS) is the official international journal of the Korea Information Processing Society. With information processing systems progressing at a rapid pace, the Korea Information Processing Society is committed to providing researchers and other professionals with the academic information and resources they need to keep abreast of ongoing developments. JIPS aims to be a premier source that enables researchers and professionals all over the world to promote, share, and discuss all major research issues and developments in the field of information processing systems and other related fields.

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Indexing:

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Nowadays, as the IoT and Big Data environments are becoming ever more complex, the solutions of problems with IoT and Big Data-based systems and infrastructures are becoming increasingly difficult to resolve. Given that artificial intelligence, networks, security, databases and so on are all inter-connected and integrated to solve, enhanced approaches to integrating two or more fields of research should be developed, such as security-based databases, artificial intelligence-based networks, and so on. In addition, as the demand for and size of the intelligent IoT and Big Data systems and infrastructures are increasing, it is essential to promote superintelligence and super-connection-based research.

### ► Subject Coverage

As a promising technique for attaining decentralized consensus, blockchain has been successfully applied to digital currency, i.e. bitcoin, serving as a public ledger for transactions. Its secure design capable of supporting a distributed computing system with high Byzantine fault tolerance is attracting considerable attention worldwide. Blockchain has great potential for event recording, identity management, fault

provenance, behavior tracking, and so on, especially in a distributed system without a trusted authority or central server.

We invite authors to submit original papers on recent research in the area of Blockchain and Cryptocurrency. This special section is intended to serve as an invaluable platform that allows researchers in academia and industry to share their latest research ideas and results, development activities, and emerging industry technologies on Blockchain in the fields of IoT (Internet of Things), Cyber Physical Systems, edge computing, social networking, crowdsourcing, and next-generation wireless communications. Topics of interest include, but are not limited to, the following:

- Theories of blockchain and its evolution
- Smart contract and distributed ledger
- Blockchain and Cryptocurrency security
- Distributed consensus on resource-limited devices
- Blockchain schemes for decentralization
- Byzantine fault tolerance
- Security, privacy and trust of blockchain and decentralized schemes
- Performance optimization of blockchain and decentralized schemes
- Applications with the blockchain technique
- Blockchain-based lightweight data structures for IoT data
- Blockchain-based IoT security solutions
- Blockchain in cyber physical systems
- Blockchain in social networking
- Blockchain in crowdsourcing and crowdsensing
- Blockchain in 5G
- Blockchain in edge and cloud computing
- Blockchain and trust managements
- Attacks on blockchain-based systems

### ► **Submission Guidelines**

Papers must be submitted to the ManuscriptLink service: <https://www.manuscriptlink.com/journals/jips>

It is important that you select "**Special Issue/Section Track**" and "**Advanced Cryptocurrency and Blockchain technology**" when you reach the "Basic Information" step of the submission process. Before submitting your paper, be sure to carefully read the JIPS submission guidelines.

### ► **Editors**

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### **► Important Dates**

- Deadline for manuscript submission: Aug. 31, 2018 -> **Nov. 30, 2018 (tentative)**
- Author notification: Sep. 30, 2018 (tentative) -> **Dec. 31, 2018 (tentative)**
- Expected publication date: 4th quarter, 2018 (tentative) -> **1st quater, 2019 (tentative)**